

# INTERNATIONAL SEARCH REPORT

International Application No  
PCT/EP 03/11851

A. CLASSIFICATION OF SUBJECT MATTER  
IPC 7 F01D9/02 F01D25/24 F01D11/00

According to International Patent Classification (IPC) or to both national classification and IPC.

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)  
IPC 7 F01D F16J

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, PAJ

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 02/06637 A (ALLIEDSIGNAL TURBO SA ;DECHANET ERIC (FR); FIGURA GIORGIO (FR); JE) 24 January 2002 (2002-01-24) cited in the application page 4, line 13 - line 25 figures 1,2 ---	1-3, 12-17,19
X A	JP 55 037508 A (ISHIKAWAJIMA HARIMA HEAVY IND CO LTD) 15 March 1980 (1980-03-15) figures & PATENT ABSTRACTS OF JAPAN & JP 55 037508 A (ISHIKAWAJIMA HARIMA HEAVY IND), 15 March 1980 (1980-03-15) abstract --- -/--	1,4,12, 15,17-19 5,11,13

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

### \* Special categories of cited documents:

- \*A\* document defining the general state of the art which is not considered to be of particular relevance
- \*E\* earlier document but published on or after the international filing date
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- \*O\* document referring to an oral disclosure, use, exhibition or other means
- \*P\* document published prior to the international filing date but later than the priority date claimed

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- \*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- \*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
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Date of the actual completion of the international search

2 July 2004

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12/07/2004

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 4 850 797 A (BENSON STEVEN R) 25 July 1989 (1989-07-25)	1
A	column 5, line 44 - line 56 figures 4,5	5-7,9
A	US 4 209 177 A (HALL JOHN F) 24 June 1980 (1980-06-24)	1-3,5-7, 9,12-14, 16,17
	column 2, line 17 -column 3, line 3 abstract; figures 1,2	
A	US 4 503 680 A (WOOD TERRY G) 12 March 1985 (1985-03-12)	1,4-7,9, 12,15
	column 2, line 4 - line 43 abstract; figures	

# INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No  
PCT/EP 03/11851

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
WO 0206637	A	24-01-2002	WO 0206637 A1	24-01-2002
			AU 6577400 A	30-01-2002
			BR 0017293 A	29-07-2003
			CA 2416331 A1	24-01-2002
			EP 1303683 A1	23-04-2003
			HU 0301321 A2	28-08-2003
			JP 2004505190 T	19-02-2004
JP 55037508	A	15-03-1980	NONE	
US 4850797	A	25-07-1989	NONE	
US 4209177	A	24-06-1980	CA 1164907 A1	03-04-1984
US 4503680	A	12-03-1985	CA 1195252 A1	15-10-1985